

### **In The Claims**

Please enter this amendment for claim 1 as follows:

1. (amended, corrected) In a process in which a material is electrochemically loaded with second material, a method of monitoring the loading within said material that comprises:

loading said second material,  
driving a mechanical vibration of said material loaded with second material,  
monitoring the frequency of said vibration, and  
relating said frequency of said vibration to the mass of said material.

Please enter this amendment for claim 8 as follows:

8. (amended, corrected)

In a process for loading a material with a second material, a method of monitoring the loading within said material that comprises:

loading said second material,  
mechanically driving said material so as to enable a mechanical vibrations of said material,  
providing means to produce said vibrations,  
providing means to detect the frequency of said vibrations, and  
relating said frequency to the mass of said material.

Please enter this amendment for claim 10 as follows:

10. (amended, corrected)

A process as in claim 8 wherein the frequency of said vibration is determined by the material producing interference with an optical beam.

Please enter this amendment for claim 14 as follows:

14. (amended, corrected) A process as in claim 8 wherein said means to drive said vibration comprises coupling said loaded material as a first mass to a second mass located external to said material.

Please enter this amendment for claim 17 as follows:

17. (amended, corrected) An apparatus to monitor the loading of a material by a second material which includes in combination:

means to load said second material,

means to enable mechanical vibrations of said material loaded with said second material,

means to drive said vibrations,

means to monitor the frequency of said vibrations, and

means to relate said frequency to the mass of said material.